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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/899,334	07/05/2001	Johan Ubby	1931/62303	2617
	7590 05/29/2002			
RICHARD F. JAWORSKI Cooper & Dunham LLP 1185 Avenue of the Americas			EXAMINER	
			FIGUEROA, FELIX O	
New York, NY 10036			ART UNIT	PAPER NUMBER
			2833	

DATE MAILED: 05/29/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>		Application No.	Applicant(s)	<del></del>		
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Office Action Summary		09/899,334	UBBY ET AL.	··		
	Onice Acadii Caninai y	Examiner	Art Unit			
	The MAILING DATE of this communication a	Felix O. Figueroa	vith the correspondence an	ldress		
Period fo	_	ppears on the cover sheet i	viai aic correspondente de			
THE I - Exter after - If the - If NO - Failu - Any I	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a re- period for reply is specified above, the maximum statutory perior are to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may a eply within the statutory minimum of the dod will apply and will expire SIX (6) MC tute, cause the application to become a	a reply be timely filed hirty (30) days will be considered timel ONTHS from the mailing date of this c ABANDONED (35 U.S.C. § 133).	ly. ommunication.		
1)	Responsive to communication(s) filed on					
2a)□	·	This action is non-final.				
3)	Since this application is in condition for allo	wance except for formal m	atters, prosecution as to the	ne merits is		
	closed in accordance with the practice under	er <i>Ex parte Quayle</i> , 1935 (	C.D. 11, 453 O.G. 213.			
•	i <b>on of Claims</b> Claim(s) <u>1-45</u> is/are pending in the applicati	ion				
•	4a) Of the above claim(s) is/are withd					
	Claim(s) is/are allowed.					
	Claim(s) <u>1-45</u> is/are rejected.					
,	Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and	d/or election requirement.				
	ion Papers	,	•			
9)	The specification is objected to by the Exami	iner.				
10)⊠	The drawing(s) filed on 05 July 2001 is/are: a	a)⊠ accepted or b)⊡ objecto	ed to by the Examiner.			
	Applicant may not request that any objection to					
11)	The proposed drawing correction filed on	is: a)□ approved b)□	disapproved by the Examir	ner.		
	If approved, corrected drawings are required in	reply to this Office action.				
12) The oath or declaration is objected to by the Examiner.						
Priority	under 35 U.S.C. §§ 119 and 120					
13)	Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C	C. § 119(a)-(d) or (f).			
- a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority docume	ents have been received.				
	2. Certified copies of the priority docume	ents have been received in	Application No			
*	3. Copies of the certified copies of the papplication from the International See the attached detailed Office action for a	Bureau (PCT Rule 17.2(a)	).	I Stage		
	Acknowledgment is made of a claim for dome			al application).		
-	a) The translation of the foreign language					
15)	Acknowledgment is made of a claim for dom	estic priority under 35 U.S.	C. §§ 120 and/or 121.			
Attachme	nt(s)					
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Revièw (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice	ew Summary (PTO-413) Paper North of Informal Patent Application (P			

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#### **DETAILED ACTION**

# Claim Objections

Claims 1; 5, 9, 10, 14, 21, 25 and 38 are objected to because of the following informalities:

In claim 1 line 2; claim 10 line 2; claim 21 line 2, --a-- should be inserted prior to "plurality".

In claim 5 line 2; claim 14 line 2; claim 25 line 2; claim 34 line 2, "its" should be -- the--.

In claim 9 line 4; claim 38 line 4, --a-- should be inserted prior to "monitoring".

Appropriate correction is required.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 21, 39, 40, 43 and 45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 21 lines 2-3, "the same" and "its entire length" lack antecedent basis.

In claim 39 line 3, "the same" and "its entire length" lack antecedent basis.

In claim 40 line 2, "the respective shape" lacks antecedent basis. In line 3, "the same" and "its entire length" lack antecedent basis.

In claim 43 line 1, "the shape" lacks antecedent basis.

In claim 45 line 1, "the shape" lacks antecedent basis.

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## Claim Rejections

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Davis (US 4,568,401).

Davis discloses a cable monitoring cable comprising: a cable (10) including a plurality of individual wires (12,14) each extending substantially an entire length of the cable, and a plurality of electrodes (20,26) connected to a respective one of the plurality of cables and positioned at various points along the cable.

Claims 1, 2, 4, 5, 7-11, 13, 14, 16-22, 24, 25, 27-29, 39, 40,44 and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Kruppenbach et al. (US 3,923,121).

Kruppenbach discloses a monitoring cable comprising: a cable / plurality of respective cables (12) including a plurality of individual wires (56) each extending substantially an entire length of the cable and a plurality of electrodes / electrode

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connectors (14) each connected to a respective one of the plurality of individual wires and positioned at various points along the cable.

Regarding claims 2, 11 and 22, Kruppenbach also discloses each of the plurality of individual wires comprising a single strand wire.

Regarding claims 4, 13 and 24, Kruppenbach teaches the electrodes are integrally formed in the cable (col. 3 line 39-41).

Regarding claims 5, 14 and 25, Kruppenbach also teaches resistive elements (80) positioned between a respective electrode and a respective one of the plurality of wires.

Regarding claims 7, 16 and 27, Kruppenbach shows the cable being substantially circular in cross section.

Regarding claims 8, 17 and 28, Kruppenbach inherently discloses the individual wires being electrically insulated from each other.

Regarding claims 9, 18 and 29, Kruppenbach also shows an interface connector (52) provided at one end of the cable and including a plurality of contact points connected to a respective one of the individual wires.

Claims 3, 12 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kruppenbach in view of Hart et al. (US 3,325,765).

Kruppenbach discloses substantially the claimed invention except for the single strand wires instead of the multi-strand wires. Hart shows that a multi-strand wire is an equivalent structure known in the art for single strand wire. Therefore, because these two wires were art-recognized equivalents at the time the invention was made, one of

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ordinary skill in the art would have found it obvious the substitution of single strand wires for multi-strand wires to complete the electrical connection.

Claims 6, 15 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kruppenbach in view of Poon (US 5,601,448).

Kruppenbach discloses substantially the claimed invention except for a circular cable instead of flat cable. Poon shows that a flat ribbon cable is an equivalent structure known in the art for a circular cable. Therefore, because these two cables were art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious the substitution of a circular cable for flat ribbon cable to carry the plurality of individual wires.

Claims 21, 22, 24, 27 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Lilleberg (US 1,574,297).

Lilleberg discloses a cable (12) including a plurality of individual wires (15), the cable being shaped substantially the same for substantially its entire length; and a plurality of electrodes (13) electrically connected to a respective one of the plurality of individual wires and positioned at various points along the cable. Lilleberg also discloses each of the plurality of individual wires comprising a single strand wire. Lilleberg teaches the electrodes are integrally formed in the cable. Lilleberg shows the cable being substantially circular in cross section. Lilleberg discloses the individual wires being electrically insulated from each other.

Claims 30-31, 33, 34, 36-38, 41 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kruppenbach et al.

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Specifically on claims 30, 41 and 42, Kruppenbach discloses substantially the claimed invention except for the cable tapering from one end to another end. However, it would have been an obvious matter of design choice to form the cable tapering from a first end to a distal end, since applicant has not disclosed that such design solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with the structure of Kruppenbach.

Regarding claim 31, Kruppenbach also discloses each of the plurality of individual wires comprising a single strand wire.

Regarding claim 33, Kruppenbach teaches the electrodes are integrally formed in the cable (col. 3 line 39-41).

Regarding claim 34, Kruppenbach also teaches resistive elements (80) positioned between a respective electrode and a respective one of the plurality of wires.

Regarding claim 36, Kruppenbach shows the cable being substantially circular in cross section.

Regarding claim 37, Kruppenbach inherently discloses the individual wires being electrically insulated from each other.

Regarding claim 38, Kruppenbach also shows an interface connector (52) provided at one end of the cable and including a plurality of contact points connected to a respective one of the individual wires.

Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kruppenbach in view of Hart et al.

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Kruppenbach discloses substantially the claimed invention except for the single strand wires instead of the multi-strand wires. Hart shows that a multi-strand wire is an equivalent structure known in the art for single strand wire. Therefore, because these two wires were art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious the substitution of single strand wires for multi-strand wires to complete the electrical connection.

Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kruppenbach in view of Poon.

Kruppenbach discloses substantially the claimed invention except for a circular cable instead of flat cable. Poon shows that a flat ribbon cable is an equivalent structure known in the art for a circular cable. Therefore, because these two cables were art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious the substitution of a circular cable for flat ribbon cable to carry the plurality of individual wires.

Claims 30, 31, 33, 35, 37, 38 and 42 are rejected under 35 U.S.C. 102(b) as being anticipated by Schoeckert et al. (US 5,546,950).

Schoeckert discloses a monitoring cable comprising: a cable (10) including a plurality of individual wires (12a-j), the cable tapering from a first end to a second end and a plurality of electrode connectors (16) each electrically connected to a respective one of the plurality of cables and positioned at various points along the cable.

Regarding claim 31, Schoeckert shows single strand wires.

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Regarding claim 33, Schoeckert also discloses the connector electrodes integral with the cable.

Regarding claim 35, Schoeckert discloses a substantially flat ribbon cable.

Regarding claim 37, Schoeckert teaches the wires being electrically insulated from each other.

Regarding claim 38, also teaches an interface connector at one end of the cable.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Robbins (US 4,686,998), Kroll et al. (US 4,890,630), Leonard et al. (US 5,236,374), Schoppelrey (US 4,099,824) and Redmond et al. (US 5,176,535) teach cables having electrodes at various points along a cable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Felix O. Figueroa whose telephone number is (703) 308-0097. The examiner can normally be reached on Mon.-Fri., 8:00-5:00.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

1782.

ffr

May 23, 2002

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